

The Wobbly Oscillator



Hams Who Serve

Cuyahoga Amateur Radio Society

January 2024 Volume 54 Number 1



Happy New Year

Matt-KE8OZU-Ham of the Year

From The Prez
Toby, WJ8D

Welcome New Officers

2024 brings new faces and changes to CARS. We have a new treasurer, a new secretary, a new webmaster, and a new Board member added to the club leadership team.

Please welcome Matt, KE8OZU, who took a giant step upward to replace Bob, W8GC, as treasurer and webmaster. Bob has done a stellar job in both positions for decades; we can't ever thank him enough for his contributions. If anyone can fill Bob's shoes, it's Matt. I have worked with them both for quite some time, and it's been a privilege.

Matt, NU8H, will be our new secretary. He has been our back-up scribe for a year proving his skill with every submission. As a past CARS secretary, I can say with authority it is not as easy as some may assume. Our meeting minutes become the historic record of our club's business. Functioning as club historian, I've learned the importance of good records. Matt's proficiency will certainly be an asset.

Replacing Terry, KB8DTC, on the Board of Directors will be John, NU8Y. Since joining CARS, John has pitched in with gusto rarely seen. He whizzed through our licensing class to become an Amateur Extra. John has participated in every Field Day since he joined, pitching in, and making contacts on the radio. He also stepped up to be our safety officer when the need arose. Not only does he bring coffee to the meetings and special events, he does it with a smile. John provided us with a great meeting program bringing his daughter Rita, to speak about the Merchant Marine Academy. Near and dear to this editor's heart is the steady stream of fantastic and informative WO articles John submits. Certainly, John will prove to be a vital member of the CARS Board of Directors.

Holiday Party Wrap-up

By all comments heard, the 2023 CARS Holiday Party was a roaring success. The staff at the Wagon Wheel Pub in Parma treated us splendidly with great food, service, and adult beverages. Occupying the party room on the lower level, the CARS group was all smiles everywhere you looked. The highlight of the evening was the presentation of the coveted Ham Of The Year award to Matt, KE8OZU. As I mentioned introducing him at the party, the HOTY award this year was an easy selection. Matt has taken on an enormous load of responsibility as treasurer and webmaster. So far he has done an outstanding job. Bob, KC8MRC, was given a beautiful plaque for having the most net check-ins three years in a row. The net controllers and those who checked into the net 45 times or more times were awarded CARS emblazoned coffee mugs. With all the positive feedback from the party goers, it appears we may not have to search for a new location for next year's party.

Christmas Parade

The winter temperatures did not deter a group of CARS volunteers to help manage the Seven Hills Christmas parade on Saturday December 2nd. Matt, KE8OZU; John, NU8Y; Joe, KD8BAL; Ron, K8RJH; and Toby, WT8O, provided communications, parking, staging, and crowd control. The parade participants were a rather subdued lot, and fun to work with. The city appreciates our help showing their thanks by letting us use Community rooms at no charge for our CW and licensing classes. Check out the pictures ace lensman Ron took; they may entice you join in the fun next year.

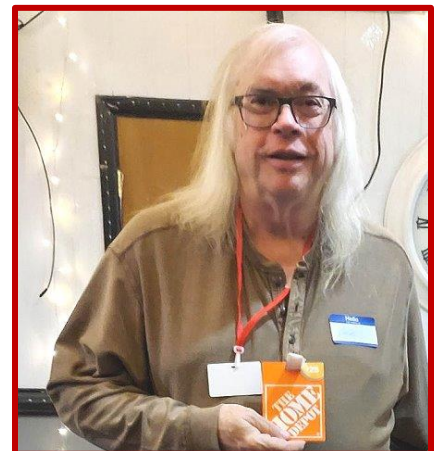


Matt, KE8OZU, is awarded the 2023 Ham Of The Year plaque for his efforts taking over as CARS treasurer and redesigning and building the new website.



Andy, KD8SCV, forks over the 50/50 winnings to Bob, K8RGI.

Dave, WD8IOU, now can plan a project using his Home Depot gift card.



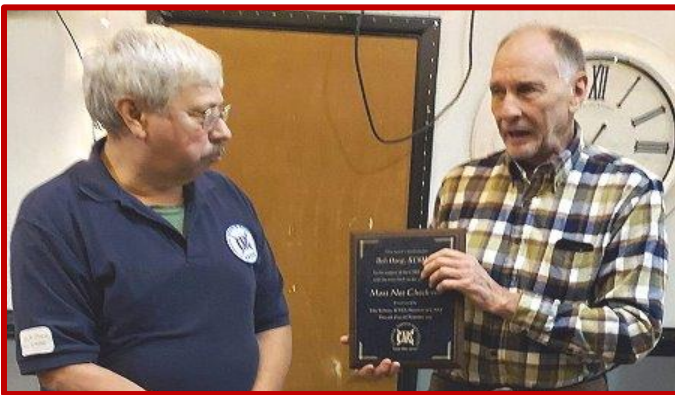


Carol Ulaszewski wins an ACE gift card.

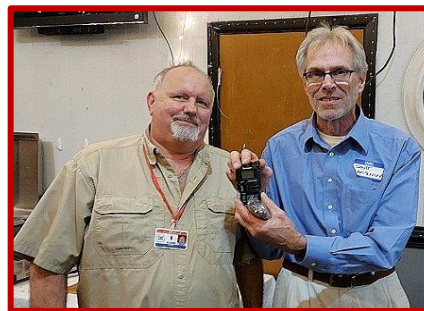


Mark, KC8FQV, and Chuck, K8CVM, brightened up the party.

2024 CARS Holiday Party



Bob, KC8MRC, wins a beautiful plaque for the most net check-ins for 2021, 2022, and 2023.



Mark, WJ8WM, awards Scott, AC8NW, the first place prize for winning the Trivia contest.



Esther Hollas is a winner in every sense of the word.



Bob, KD8UXZ, Bill, KD8QBB, his guest Pat, and Sherr Kolman get caught off guard by Ron, K8RJH.



Eddie, KD8FTS; Colleen, KD8FTT, and Arp, K8ARP, enjoy each other's company and the Wagon Wheel bill of fare.



Mark, KC8ESG, and Scott, AC8NW, check out his prize HT.



Ron, K8RJH, appears to love his net controller mug.



Joel, K8SHB, didn't make the party; possibly because of a dead battery caused by his Christmas Jeep.

Seven Hills Christmas Parade



The Ghostbusters and the Grinch made the scene.



The CARS crew prepares for the parade; John, NU8Y; Joe, KD8BAL; Matt, KE8OZU, and Toby, WT8O. Crewmember, Ron, K8RJH, photographed the group.



RTA provided the Christmas trolley.

**WELCOME NEW
MEMBER
JEREMY GRABER
KB8VHL**



The Grinch spread "joy" throughout the day.

Seven Hills mayor Anthony Biasiotta looking sharp. (R)



November 2023 Meeting Minutes

LOCATION — The meeting was held on November 14th at the Busch Funeral Home on Ridge Road in Parma, Ohio

CALLED TO ORDER — The meeting was called to order by President Toby Kolman, WT8O, at 7:31 PM

PLEDGE OF ALLEGIANCE — Those present pledged allegiance to the flag of the United States of America.

INTRODUCTIONS — Those present introduced themselves. 17 individuals attended the meeting, including one non-member.

OCTOBER MINUTES — The October minutes were approved as published in the WO.

NEW MEMBER — One new member, Jeremy Graber, KB8VHL, was voted into the Club.

TREASURER'S REPORT — Matt Perlman, KE8OZU, reported on the Club's current financial situation. No issues or concerns were identified.

PRESIDENT'S REPORT — Toby Kolman, WT8O, reported the following:

- The Seven Hills Christmas Parade is on
- December 2nd. The event has enough volunteers.
- More are welcome to join. Meet at the Moose
- Lodge on Broadview Road at 9:00 AM.
- The Holiday Party will be on December 9th at the Wagon Wheel in Parma. Details and the menu are available on the website (www.2cars.org). Please RSVP to Toby.
- Bob, W8GC, motioned, Mark, WJ8WM, seconded, and the Club unanimously approved Vince Bak, N8OVW, as an honorary member.
- The Summer Picnic and Holiday Party committee
- needs a chair.
- Net check-ins for 2023 are posted on the website.
- Thanks to everyone for the contributions to the WO. John's, NU8Y's, article in the November-December 2023 WO was great.
- Please check the roster on the website for accuracy.
- Let the webmaster know if any updates are needed.
- The Club is looking for new badge design ideas. Toby showed some ideas to the Club and is looking for feedback and additional ideas.

Next CARS Meeting

Tuesday, Jan. 9 - 7:30 PM

**Busch Community Room
7501 Ridge Rd. - Parma**

Prof. David Kazdan, AD8Y

Will present a program on:

**The Effects of the Solar
Eclipse on Communication**

**See Website for Details -
www.2cars.org**



CARS member, Dr. Linas Vaitkus, KE8KOJ, enlightened the group with an insiders presentation on Covid 19, RSV, and Flu vaccines.



Matt, NU8H, collects his 50/50 winnings after Andy, KD8SCV, verified his ticket.

VICE PRESIDENT'S REPORT — Ron Hollas, K8RJH, reported the following:

- Please consider joining or renewing your membership to ARRL when renewing your CARS membership.
- The ARRL is currently advocating related to changes in the 60 meter band and elimination of the baud rate limitation. More information can be found in the "Regulatory & Advocacy" section of the ARRL website.
- The Great Lakes Director election closes on November 17.
- Contact ARRL Member Services if you want to continue receiving paper copies of the ARRL magazines after January 1, 2024.
- Check out the latest ARRL podcast, "The Value of Contest Clubs."
- ARRL Audio News is posted weekly on Fridays.

SECRETARY'S REPORT — Secretary Matt Perlman, KE8OZU, thanked Matt, NU8H, for filling in as Secretary for the September and October meetings. Matt also announced that the Club is updating the website at the end of the year. The current website has a link to a preview of the new website. Members are encouraged to provide feedback on the new website to the webmaster.

PUBLIC SERVICE- Eddie, KD8FTS, had nothing to report. N8ESG, <https://n8esg.org/>, has a full list of events.

VE UPDATE — Metro, W8MET, reported that he and George, K8KR, hosted a VE session on November 12th. No one showed up at the session. The next VE session will be at 9:15 AM on January 14th at the Old Rec Center in Independence.

PROGRAM COMMITTEE — Joe, KD8BAL, reported that upcoming presentations for CARS meetings include:

- Today's program is Dr. Linas Vaitkus, KE8KOJ, talking all things should know about Covid 19, RSV and the Flu and the vaccine.
- January's program will be Professor David Kazdan, AD8Y, from CWRU presenting on the effects of the solar eclipse on communication
- Please contact Joe with ideas for future programs.
- Thanks to volunteers who present to the Club.



Bob, KC8MRC, gets ready for the meeting while enjoying a donut.

TECH COMMITTEE — No one from the tech committee was in attendance to provide an update.

REFRESHMENTS — Toby, WT8O, thanked Ron, K8RJH, for providing soft drinks, Matt, NU8H, for providing doughnuts and John, NU8Y, for providing coffee.

BOARD CHAIRMAN — Mark, WJ8WM, reported that all board meetings are open to all Club members. The meetings will be announced to the Club in the future. The chairman of the Board will set a tentative meeting schedule before the February meeting.

OLD BUSINESS — Toby, WT8O, led a discussion on the following:

- Toby and Mark, KC8ESG, are forming a committee to start an HF net.
- CARS clothing is available through the website.
- The Club is planning winter in-field events.

NEW BUSINESS — Toby, WT8O, led a discussion on the following:

- 2024 officers and board members were elected.
 - President Toby, WT8O
 - Vice-President: Ron, K8RJH
 - Treasurer: Matt, KE8OZU
 - Secretary: Matt, NU8H
 - Even-Year Board Members: Mark, WJ8WM, John, NU8Y and Scott, AC8NW
- Eddie, KD8FTS, reminded the Club that
- Dayton bus tickets purchased before
- December 31, 2023 will be priced at \$50.
- Tickets purchased on January 1, 2024 or later
- may have a higher cost. The website will be
- updated to make purchasing tickets easier.

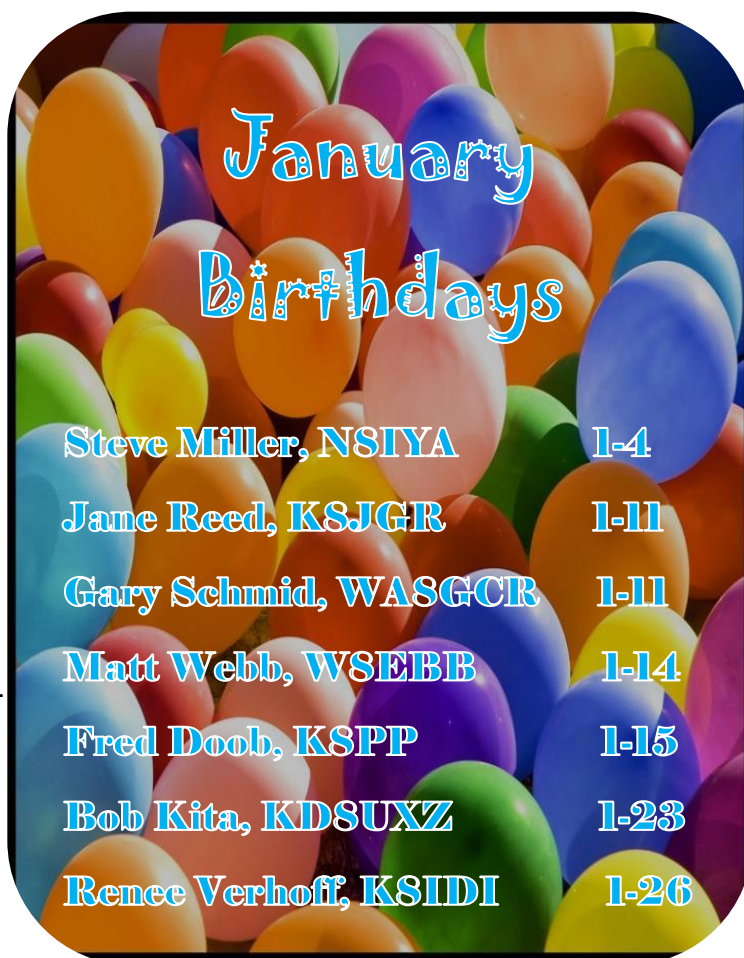
NEXT MEETING — The next meeting of The Cuyahoga Amateur Radio Society will be January 9, 2024 at the Busch Funeral Home on Ridge Road in Parma, Ohio.

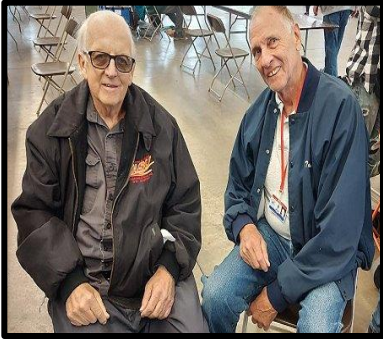
50/50 Drawing — Matt, NU8H, won the 50/50 drawing.

ADJOURNMENT — Toby, WT8O, adjourned the meeting at 8:20 PM.

After the meeting, Dr. Linas Vaitkus, KE8KOJ, talked about all things we should know about Covid 19, RSV, and the Flu and the vaccine.

Submitted by Matt Perlman, KE8OZU, CARS Secretary

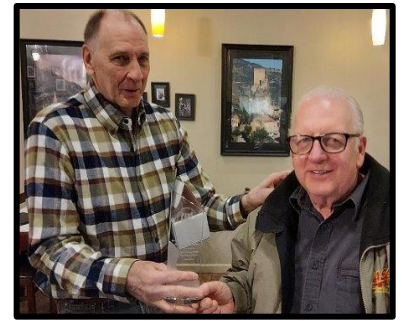




Vince and Toby, WT8O, at the Berea Hamfest in September 2023.



Ham Of The Year 2016



Vince wins at the 2023 holiday party.

Vince Bak, N8DVW / SK

Toby, WT8O

Vince is at peace now, a peaceful man in a peaceful place. He's probably looking down wondering what he can do to help. No need Old Man, you aided us so much while you were here; we are carrying on inspired by everything you taught us and all the knowledge you shared.

Above and beyond the technical assistance you gave, your friendship and teamwork always made it a joy to be associated with you. You were fun to work with, even when things were going wrong. Just about every time I phoned you, no matter what time of day, you always picked up and answered cheerfully. Of course, there was usually a problem when I called, and you responded with a solution or a plan to visit the installation with the difficulty to attempt a repair.

The renowned CARS repeater system stands as a tribute to Vince. Without his professional connections, we would be hard pressed to have a repeater at all. Tower space is hard to come by, and usually cost prohibitive for a nonprofit radio club. Vince's employer, Alan Vasu, has been kind enough to let us use Vasu towers in Brecksville, Brunswick, and Shaker Heights.

Vince certainly takes his place in the CARS history book.



Vince connecting the antenna at the short lived Parma repeater.



Checking things out in Brecksville.



Vince and Ron, K8RJH, conferring at the Brecksville repeater.

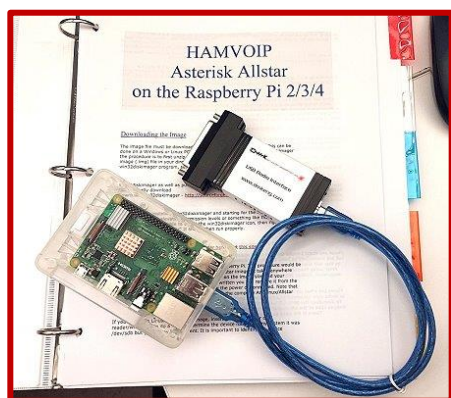
Reflections on a Lesson Learned

Ron, K8RQH

Amateur Radio has been making significant changes over the years by taking advantage of advances in technologies that offer greater conveniences of operating, adding modes of communications, and new types of features that were not possible as recently as 10 years ago. As the Amateur Radio Service steadily progresses with operating skills and capabilities, we must also continue to grow our sense of “situational awareness” and anticipate the “what if” while using our new services. This year presented a reminder that not all our equipment, especially computer based, may fault without any obvious clues!

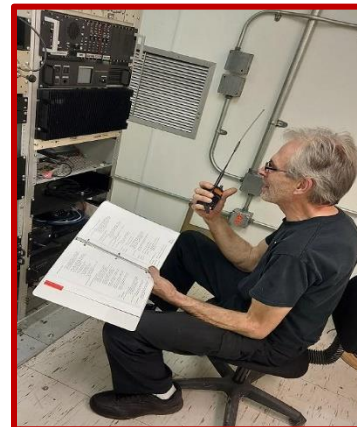
Over the past several months several users of the K8ZFR repeater may not have noticed that the AllStar / EchoLink system started to show subtle changes in its operation. What should have been obvious were the changes in the longer response time of connecting to this internet node, some choppy audio with some users, and a noticeable lagging control of the PTT function with remote operators. These items may have been overshadowed earlier this year when the club added WIRES-X functionality in the repeater system. Most individuals may have just assumed that any changes were normal. The node has been operating for nearly four years and is a favorite service with our traveling members.

Eventually, the Allstar and EchoLink nodes which were assumed to be running flawlessly, faulted into an inoperative state on December 6, 2023 . Users were unable to connect remotely. The CARS technical committee jumped into action with immediate restoration steps to bring the node back on line that ended up taking at least two weeks.



This is the new complete build for the K8ZFR-R AllStar/EchoLink node ready for installation. Shown is a Raspberry Pi3 and the USB Radio Interface. (L)

Scott, AC8NW, completing the checkout testing of the new AllStar / EchoLink node for audio, control and signaling functions. (R)



The typical steps were tried; check power, verify connections, confirm internet services, and so on. Then the Raspberry Pi 3 hardware was checked and even replaced with no favorable result. Only after inspecting the Micro SD card of the processor, it was found that it contained errors. These errors are suspected to be caused from disk “leveling” algorithm, consistent read/write operations that can eventually cause memory blocks of the Micro SD card to be corrupted. It is well documented in PiStar operation guides.

Additionally, another problem was that the firmware image was not current and would require significant effort to transfer to another SD card, upgrade the system to the latest release and verifying that none of the original errors were contained in the backup or in the “fix”. It was simply easier to rebuild the AllStar and EchoLink nodes from scratch using new equipment with some reverse engineering. The benefit would include the latest AllStar and EchoLink security patches, features, and reliability for our members to enjoy.

The lesson was being cast that we should always be diligent with what our equipment is telling us and be critical of any performance changes at the earliest chance. Especially, when we make changes, provide new capabilities, and add features that may mask an underlying problem within our stations. Simply, changing the SD card and upgrading the firmware as part of a maintenance plan would have saved the technical committee several weeks of effort!

Additionally, being prepared to understand when something stops working properly is a challenge reminding us to be prepared for adapting to any, and all changes. This is a good lesson to learn and practice that will save time enjoying our Amateur service well into next year.

For additional information, check out;

SD Card Wear Leveling;

https://en.wikipedia.org/wiki/Wear_leveling

AllStar / EchoLink: <https://www.hamvoip.org/>



The new Allstar / EchoLink Node installed on the Digital Shelf of the K8ZFR Repeater System. It is using the latest "HamVoip" firmware and has extensive, worldwide connectivity features with upgraded security options. Shown is the Raspberry Pi (cover removed) and the USB Radio Interface connected to the repeater controller.



The Micro SD Card which is used as the memory disk in a Raspberry Pi. It is subject to "Leveling" with applications that have numerous read/write operations.

CARS Repeaters

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

AllStar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.

Oh No, Not Another Radio!

John, NV8Y

If you are like many hams and have a closet full of Chinese HT radios and have sworn to not buy any more, then this article is for you.

Many new hams started out with the typical Chinese Baofeng UV-5R radio. They are cheap, they basically work, and are not TOO tough to operate. So, for about \$25 you got your start in radio. But before you knew it, you had three or four, and maybe even five or six Baofengs hanging around the shack and in your vehicles. Eventually you realize that for around \$100 you could have purchased a real radio from one of the Japanese manufacturers. If you were not a fast learner, you ended up with even more Baofengs to go along with your many more Japanese radios. I am guilty of this scenario.

Recently at a monthly ham club meeting one of the members had a Quansheng UV-K5 radio sitting on the table in front of me and allowed me to fiddle with it. He said something like “yeah, it was about \$30 on Amazon, and it works pretty well”. I was intrigued by the radio and its overall appearance and nice large screen. I couldn't resist the temptation, so a few days later I had my own Quansheng radio.

I have always been interested in seeing how easy or difficult certain radios are to operate. To me the Baofengs just seem kind of clunky to operate and not very intuitive. After a few months away from a Baofeng I would really have to think hard to get some of the features working again.

The Quansheng on the other hand seems to be easier to program and operate. I think that even new hams could easily get the hang of it in no time at all. There are a lot of very positive reviews on the internet about this new FCC approved radio. So, I am going to skip a detailed review and just give you my own overall impression of the radio...

The Quansheng UV-K5 is about the same price, size, and feel as the Baofeng UV-5R. Both radios use the same programming cable and antennas. Programming software is available from the manufacturer as well as from Chirp. There is a belt clip, charging cradle, and USB-C charging cord included in the box. The Q can be FCC unlocked from the main menu. There are a host of third-party firmware mods that can be installed. The Q has a much larger display screen than the B. To me, the Q just seems like a nicer radio.

So, if you have sworn off buying more cheap Chinese radios, this might just be the radio for you! Buy one and fuss with it some snowy winter day. You won't be disappointed.



Quansheng UV-K5
(Left)

Quansheng UV-K5
& Baofeng UV-5R
(Right & Far Right)



Ham License Classes

The Cuyahoga Amateur Radio Society will be offering ham radio licensing classes beginning Thursday, February 29th, 2024 at 6:30 PM. There will be six sessions held each Thursday and a special VE testing session on the seventh week - April 11th, 2024.

There will be three separate classes -Technician, General, and Amateur Extra.

Classes will be held at the Seven Hills Community Room, 7325 Summit View Drive, Seven Hills, OH 44131.

Cost of the classes is \$20.00. The General class is free to all CARS members.

Anyone interested in registering for a class should contact Toby Kolman, WT8O, at:
wt8o@att.net or 440-525-6109.

Dues Notice *Matt, KC8DZU*

Your 2024 CARS dues are payable on or before January 31, 2024.
If you have already paid THANK YOU.

Dues can be paid in two ways:

You can mail a check to:

CARS

PO Box 31264

Independence, OH 44131-0264

Pay in person at any CARS meeting.

Dues are \$26.00 per year for regular membership.

Each additional family member is \$16.00.

If you are 60 yrs. or older, your dues are only \$18.00 per year.

CARS will offer assistance to anyone having a hardship.

Please let me know if you have a hardship or know a member who needs help.

January *Net Sked*

Jan	3	KD8ACO
Jan	10	AC8TN
Jan	17	AC8NW
Jan	24	WT8O
Jan	31	K8RJH

**Nets are run every Wednesday at
9:00 PM on:**

146.820 (PL 110.9)

**443.825(+) PL Tone 131.8
Digital Yaesu Fusion / C4FM
Linked to the 146.82 Repeater**

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242-Room 01242

CARS Board Meeting

The CARS Board of Directors will hold a meeting January 4th, 2024 at the Club House restaurant at 6365 Pearl Road in Parma Heights, Ohio, 44130. The business meeting will begin at 7:00 PM, and an optional dinner will begin at 6:00.

The agenda for this meeting includes the election of the Board Chairman for 2024, scheduling the additional 2024 Board meetings, and discuss any unfinished business from 2023. Minutes of the last Board meeting of 2023, held in October, are chronicled in the November-December 2023 issue of the *Wobbly Oscillator*.

All CARS members are welcome to attend the Board meetings.

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME/SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Ron Borkey, K8VJG/SK
Elected 5/14/19

Ed Stevens, WB8ROK/SK
Elected 8/10/21

Vince Bak, N8OVW/SK
Elected 11/14/23

George, K8KR ARRL Incoming Letter Sorter

CARS salutes longtime member, George Pindroh, K8KR, for his many years of service to the amateur radio community as an ARRL QSL Bureau incoming letter sorter.

For numerous years George has serviced the Eight Call Area sorting incoming mail for the letter "K."

He is periodically sent all the incoming mail for call signs with the letter "K" in the suffix, at which point he sorts and forwards the mail.

Our club can be proud of George for volunteering his time and effort as a vital part of the ARRL QSL system.

January VE Session

The next VE testing session will be held Sunday, January 14th, at 9:15 AM at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131.

Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

CARS VE History

Our VE committee chairman, Metro, W8MET, was kind enough to respond to my inquiry of how many individuals have been tested by the CARS VE team. The team has tested 314 candidates since 2016.

See the year by year breakdown below:

2016 - 74 2017 – 30 2018 – 32 2019 - 46

2020 – 47 2021 – 36 2022 – 28 2023 – 21

Our VE team is a division of CARS that we can all be proud of.

NASA Report *Bob, KC8MRC*

On Friday, December 8th, 2023 Halley's comet reached aphelion at 3.25 billion miles (5.27 billion kilometers) or the most distant point in its orbit from the sun. In 38 years it will reach perihelion or the closest point to the sun, the last time it was at aphelion was in April, 1948.

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society. Articles from this publication may be reprinted in any ham radio publication, if credit is given to this publication and the author, if known. All submissions should be emailed to: Toby Kolman, WT8O at wt8o@att.net



Sign up now for CARS 2024 Winter Ham Radio classes, get your Technician, General or Extra class license!

**Thursday evenings starting February 29, 2024
and ending April 11, 2024 at 6:30 PM**

***April 11th will be a special VE Test session for all license classes,
ARRL fee for this VE test is \$15.00***

**To register please contact Toby, WT8O at:
wt8o@att.net or 440-525-6109**

***Classes will be held at the Seven Hills City Hall, 7325 Summit View Dr.
Seven Hills, OH 44131 in room "C" at 6:30 PM every Thursday.
The entrance is at the East end on the South side of building***

Class fees:

**Technician \$20.00, all who pass get a free CARS membership for 2024
General and Extra \$20.00**

General class ONLY is FREE to CARS members

All class materials are provided

2024 CARS Committees, Officers, Board and Trustees

CARS 2024 Committees

50/50

Chair: Andy Evridge, KD8SCV

Audio/Video

Chair: Scott Smith, AC8NW

Awards

Co-Chairs: Bob Check, W8GC and Toby Kolman, WT8O

Fund Raising

Chair: Bob Check, W8GC
Members: Ron Hollas, K8RJH, Matt Perlman, KE8OZU and Gary Schmid, WA8GCR

ARRL Liaison

Chair: Ron Hollas, K8RJH

Audit

Chair: Ron Hollas, K8RJH
Members: Eddie Stevens, KD8FTS and Toby Kolman, WT8O

Field Day

Co-Chairs: Bob Robbins, K8RGI and Toby Kolman, WT8O
Members: Scott Smith, AC8NW, David Korow, AC8TN, Arp Viiberg, K8ARP, Ron Hollas, K8RJH, Andy Evridge, KD8SCV and Mark Moro, WJ8WM

Hamvention Bus

Chair: Eddie Stevens, KD8FTS
Member: Toby Kolman, WT8O

Historian

Chair: Toby Kolman, WT8O

License Classes

Chair: David Noeth, KD8ACO

Members: Joel Chaney, K8SHB and Toby Kolman, WT8O

Membership

Chair: Toby Kolman, WT8O

Member: Bob Check, W8GC

Newsletter

Chair: Toby Kolman, WT8O

Property to Sell Custodian

Chair: Bob Check, W8GC

QSL Manager

Chair: Metro Sinko, W8MET

Records Custodian

Chair: Terry Pillatt, KB8DTC

Refreshments - Donuts

Chair: Matt Neely, NU8H

Scholarship

Chair: Bob Check, W8GC

Members: Bob Robbins, K8RGI, Ron Hollas, K8RJH, Matt Perlman, KE8OZU and Toby Kolman, WT8O

Holiday Party, Summer Picnic

Chair: Toby Kolman, WT8O

Members: Arp Viiberg, K8ARP, Kim Balach Costa, KD8FTU, Diane Balach, KD8FTV and Mark Moro, WJ8WM

Media Representative

Chair: Andy Evridge, KD8SCV

Net

Chair: Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN, Ron Hollas, K8RJH and David Noeth, KD8ACO

Programs at Meetings

Chair: Joe Ulaszewski, KD8BAL

Members: Eddie Stevens, KD8FTS and Matt Perlman, KE8OZU

Public Service

Chair: Eddie Stevens, KD8FTS

Member: Arp Viiberg, K8ARP

Quartermaster

Chair: Toby Kolman, WT8O

Refreshments - Coffee

Chair: John Dernar, NU8Y

Refreshments - Pop

Chair: Ron Hollas, K8RJH

Sunshine (Welfare)

Chair: Andy Evridge, KD8SCV

Technical

Chair: Scott Smith, AC8NW

Members: Mark Scoville, AD8KE, Ron Hollas, K8RJH, Terry Pillatt, KB8DTC, Mark Rosewicz, KC8ESG, David Noeth, KD8ACO and Mark Moro, WJ8WM

VE Exams

Chair: Metro Sinko, W8MET

Webmaster/email

Chair: Bob Check, W8GC

Member: Matt Perlman, KE8OZU

2024 Officers

President

Toby Kolman, WT8O

[440-525-6109](tel:440-525-6109)

wt8o@att.net

Vice-President

Ron Hollas, K8RJH

[216-379-7440](tel:216-379-7440)

ron@hollas.co

Secretary

Matt Neely, NU8H

[216-965-4476](tel:216-965-4476)

matt@matthewneely.com

Alternate Secretary: Matt Perlman, KE8OZU

Treasurer

Matt Perlman, KE8OZU

[216-337-1540](tel:216-337-1540)

matt@seagem.me

CARS 2024 Executive Board

Board Chair

Mark Moro, WJ8WM

[216-496-2871](tel:216-496-2871)

Alternate: Arp Viiberg, K8ARP

Even Year Board Members

Scott Smith, AC8NW, John Dernar, NU8Y
and Mark Moro, WJ8WM

Odd Year Board Members

Arp Viiberg, K8ARP, Bob Robbins, K8RGI
and Eddie Stevens, KD8FTS

CARS License Trustees

K8ZFR Trustee

Toby Kolman, WT8O

W8BM Trustee

Bob Check, W8GC

W8HBI Trustee

Bob Check, W8GC